## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions and listings of claims in the application:

## LISTING OF CLAIMS:

- 1. (currently amended): A biochemical analysis unit, comprising:
- i) a base plate, which has a plurality of holes and is constituted of a material having radiation attenuating properties and/or light attenuating properties, and
- ii) a porous adsorptive material, which is filled in each of the plurality of the holes of the base plate and forms each of a plurality of adsorptive regions,

wherein the porous adsorptive material, which forms each of the plurality of the adsorptive regions, has a pore diameter falling within the range of 1 µm to 10 µm, and wherein the biochemical analysis unit utilizes a chemical luminescence technique.

- 2. (original): A biochemical analysis unit as defined in Claim 1 wherein the porous adsorptive material takes on the form of a film.
- 3. (original): A biochemical analysis unit as defined in Claim 1 wherein the porous adsorptive material, which forms each of the plurality of the adsorptive regions, has a pore diameter falling within the range of  $1\mu m$  to  $5\mu m$ .
- 4. (original): A biochemical analysis unit as defined in Claim 2 wherein the porous adsorptive material, which forms each of the plurality of the adsorptive regions, has a pore diameter falling within the range of  $1\mu m$  to  $5\mu m$ .

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5. (original): A biochemical analysis unit as defined in Claim 3 wherein the porous adsorptive material, which forms each of the plurality of the adsorptive regions, has a pore diameter falling within the range of  $2\mu m$  to  $4\mu m$ .

- 6. (original): A biochemical analysis unit as defined in Claim 4 wherein the porous adsorptive material, which forms each of the plurality of the adsorptive regions, has a pore diameter falling within the range of  $2\mu m$  to  $4\mu m$ .
- 7. (new): A biochemical analysis unit as defined in Claim 1 wherein the radiation attenuating properties or the light attenuating properties of the material constituting the base plate is such that a radiation or a light having passed through a wall of one hole of the plurality of holes of the base plate reduces to an intensity of at most 1/5 of the original intensity when the radiation or the light passes to an adjacent hole.
- 8. (new): A biochemical analysis unit as defined in Claim 7 wherein the radiation attenuating properties or the light attenuating properties of the material constituting the base plate is such that a radiation or a light having passed through a wall of one hole of the plurality of holes of the base plate reduces to an intensity of at most 1/10 of the original intensity when the radiation or the light passes to an adjacent hole.
- 9. (new): A biochemical analysis unit as defined in Claim 1 wherein the base plate has a mean density of at least 0.6 g/cm<sup>3</sup>.

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- 10. (new): A biochemical analysis unit as defined in Claim 9 wherein the base plate has a mean density within the range of 1 g/cm<sup>3</sup> to 20 g/cm<sup>3</sup>.
- 11. (new): A biochemical analysis unit as defined in Claim 1 wherein the base plate has a thickness within the range of 50  $\mu$ m to 1,000  $\mu$ m.
- 12. (new): A biochemical analysis unit as defined in Claim 1 wherein each of the plurality of the holes has an area of opening within the range of 0.001 mm<sup>2</sup> to 1 mm<sup>2</sup>.
- 13. (new): A biochemical analysis unit as defined in Claim 12 wherein each of the plurality of the holes has an area of opening within the range of 0.001 mm<sup>2</sup> to 0.3 mm<sup>2</sup>.
- 14. (new): A biochemical analysis unit as defined in Claim 1 where a pitch of the plurality of holes falls within the range of 0.05 mm to 3 mm.
- 15. (new): A biochemical analysis unit as defined in Claim 1 where a spacing between two adjacent holes of the plurality of holes falls within the range of 0.01 mm to 1.5 mm.
- 16. (new): A biochemical analysis unit as defined in Claim 1 where an array density of the plurality of holes falls within the range of at least 10 holes/cm<sup>2</sup> to 100,000 holes/cm<sup>2</sup>.
- 17. (new): A biochemical analysis unit as defined in Claim 1 where the porous adsorptive material includes a porous quality material, a fiber material, and a combination of the porous quality material and the fiber material.

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- 18. (new): A biochemical analysis unit as defined in Claim 1 having a signal to noise ratio greater than or equal to 216.
- 19. (new): A biochemical analysis unit as defined in Claim 1 having a signal greater than or equal to 1,888,000.
- 20. (new): A biochemical analysis unit as defined in Claim 1 having a background noise less than or equal to 9,430.